

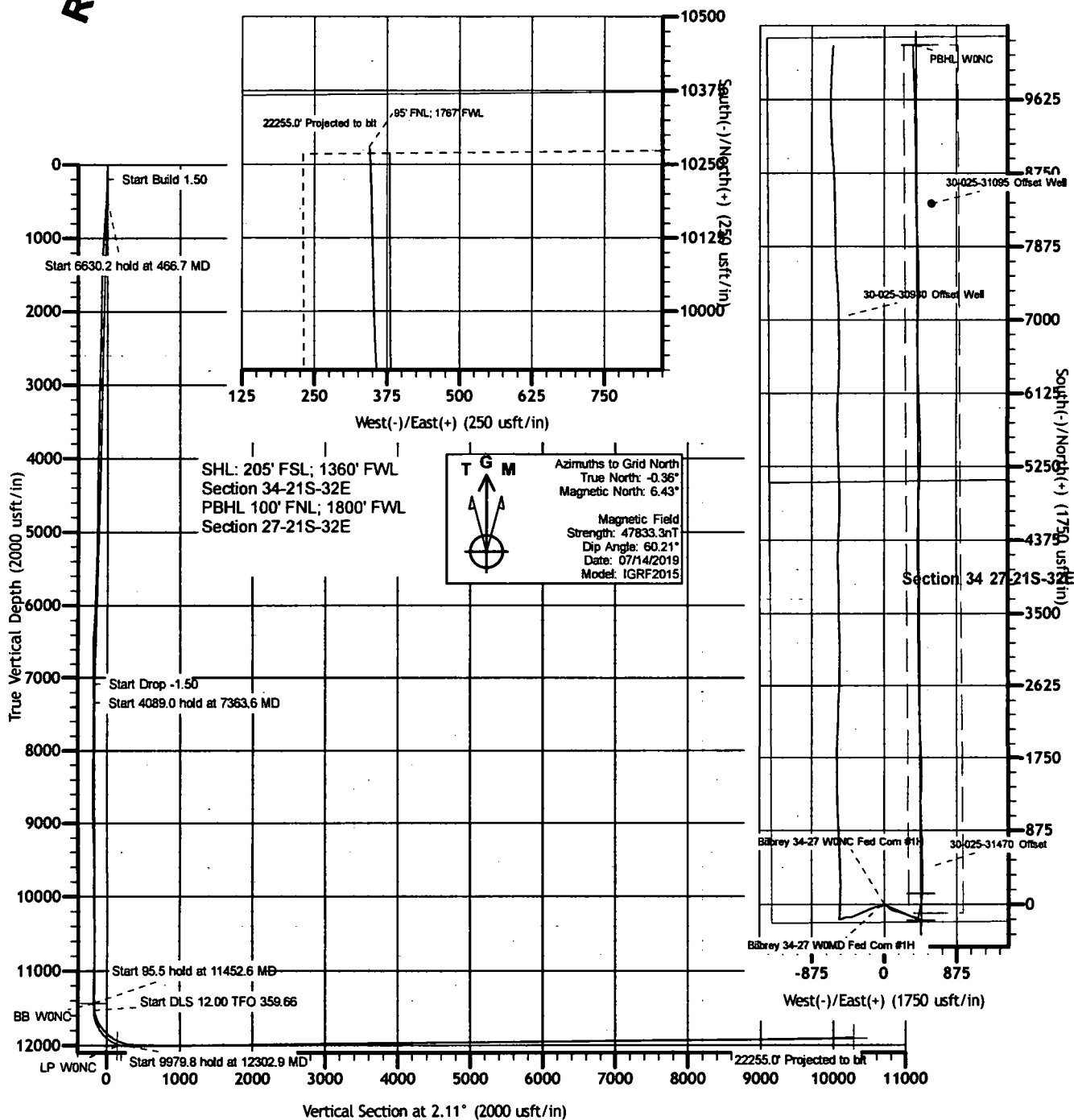
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.43°

GEODETIC ZONE: New Mexico Eastern Zone
 3752+27 @ 3779.0usft (Patterson 217)
 GROUND ELEVATION: 3752.0

GROUND ELEVATION: 3752.0						Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	520275.00	746998.10	32° 25' 42.739 N	103° 40' 0.387 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	468.7	4.00	113.44	468.5	-3.7	8.5	1.50	113.44	-3.4	
4	7086.9	0.00	113.44	7080.5	-187.7	439.9	0.00	0.00	-171.6	
5	7363.6	0.00	0.00	7347.0	-181.4	441.4	1.50	180.00	-175.0	
6	11452.8	0.00	0.00	11438.0	-191.4	441.4	0.00	0.00	-175.0	BB WONC
7	11548.1	0.00	0.00	11531.5	-191.4	441.4	0.00	0.00	-175.0	
8	12302.9	80.57	359.66	12009.0	290.8	438.5	12.00	359.66	306.8	
9	22282.8	80.57	359.66	19809.0	10270.0	378.5	0.00	0.00	10277.0	PSHL WONC





Mewbourne Oil Company

Lea County N. M. Nad (83)

Section 34 27-21S-32E Bilbrey

Bilbrey 34-27 W0NC Fed Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

04 October, 2019





Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 W0NC Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Site:	Section 34 27-21S-32E Bilbrey	MD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Well:	Bilbrey 34-27 W0NC Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Project	Lea County N. M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 34 27-21S-32E Bilbrey				
Site Position:		Northing:	520,274.70 usft	Latitude:	32° 25' 42.738 N
From:	Map	Easting:	746,968.10 usft	Longitude:	103° 40' 0.737 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.36 °

Well	Bilbrey 34-27 W0NC Fed Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	520,275.00 usft	Latitude:	32° 25' 42.739 N
	+E/-W	0.0 usft	Easting:	746,998.10 usft	Longitude:	103° 40' 0.387 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,752.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	07/14/19	6.79	60.21	47,833.30833931

Design	Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	1.92	

Survey Program	Date	10/04/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
157.0	22,255.0	Stryker Surveys (Original Hole)	MWD	MWD v3:standard declination	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
157.0	0.60	134.40	157.0	-0.6	0.6	-0.6	0.38	0.38	0.00	
364.0	5.70	118.10	363.6	-6.2	10.4	-5.8	2.48	2.46	-7.87	
545.0	5.90	124.60	543.7	-15.7	26.0	-14.8	0.38	0.11	3.59	
724.0	6.30	129.90	721.7	-27.2	41.1	-25.8	0.39	0.22	2.96	
920.0	7.60	134.40	916.2	-43.2	58.6	-41.2	0.72	0.66	2.30	
1,113.0	6.80	119.90	1,107.7	-57.8	77.7	-55.2	1.03	-0.41	-7.51	
1,301.0	3.70	121.40	1,294.9	-66.5	92.5	-63.4	1.65	-1.65	0.80	
1,489.0	5.00	103.10	1,482.4	-71.5	105.7	-68.0	1.00	0.69	-9.73	
1,679.0	5.40	101.00	1,671.6	-75.1	122.5	-71.0	0.23	0.21	-1.11	



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 W0NC Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Site:	Section 34 27-21S-32E Bilbrey	MD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Well:	Bilbrey 34-27 W0NC Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,866.0	4.70	102.50	1,857.9	-78.5	138.6	-73.8	0.38	-0.37	0.80
2,054.0	3.90	101.30	2,045.3	-81.4	152.4	-76.2	0.43	-0.43	-0.64
2,243.0	3.60	96.20	2,233.9	-83.3	164.6	-77.7	0.24	-0.16	-2.70
2,430.0	6.20	113.50	2,420.2	-87.9	179.7	-81.9	1.58	1.39	9.25
2,618.0	7.00	110.30	2,607.0	-96.0	199.8	-89.2	0.47	0.43	-1.70
2,807.0	5.70	103.60	2,794.8	-102.2	219.7	-94.7	0.79	-0.69	-3.54
2,996.0	5.00	108.00	2,983.0	-106.9	236.6	-98.9	0.43	-0.37	2.33
3,185.0	3.80	107.10	3,171.5	-111.3	250.5	-102.8	0.64	-0.63	-0.48
3,373.0	2.20	113.20	3,359.2	-114.6	259.7	-105.8	0.87	-0.85	3.24
3,560.0	5.80	116.60	3,545.7	-120.2	271.5	-111.0	1.93	1.93	1.82
3,749.0	5.10	109.30	3,733.9	-127.3	288.0	-117.5	0.52	-0.37	-3.86
3,938.0	4.20	111.40	3,922.2	-132.6	302.3	-122.3	0.48	-0.48	1.11
4,126.0	2.80	123.00	4,109.9	-137.6	312.6	-127.0	0.83	-0.74	6.17
4,312.0	3.50	97.50	4,295.6	-140.8	322.0	-129.9	0.83	0.38	-13.71
4,499.0	2.50	96.70	4,482.3	-142.0	331.7	-130.8	0.54	-0.53	-0.43
4,681.0	1.80	86.10	4,664.2	-142.3	338.5	-130.8	0.44	-0.38	-5.82
4,744.0	1.60	86.80	4,727.2	-142.2	340.4	-130.7	0.32	-0.32	1.11
4,933.0	3.90	100.00	4,916.0	-143.1	349.4	-131.3	1.25	1.22	6.98
5,121.0	3.70	114.30	5,103.6	-146.7	361.2	-134.5	0.51	-0.11	7.61
5,307.0	4.00	114.20	5,289.1	-151.9	372.6	-139.3	0.16	0.16	-0.05
5,494.0	4.20	109.60	5,475.7	-156.8	385.0	-143.8	0.21	0.11	-2.46
5,679.0	4.20	110.20	5,660.2	-161.5	397.7	-148.0	0.02	0.00	0.32
5,867.0	4.50	125.40	5,847.6	-168.1	410.2	-154.2	0.63	0.16	8.09
6,057.0	3.60	131.90	6,037.1	-176.4	420.7	-162.2	0.53	-0.47	3.42
6,246.0	3.90	130.30	6,225.7	-184.5	430.0	-170.0	0.17	0.16	-0.85
6,435.0	2.30	159.90	6,414.5	-192.2	436.2	-177.5	1.17	-0.85	15.66
6,626.0	1.70	236.40	6,605.4	-197.4	435.2	-182.7	1.32	-0.31	40.05
6,815.0	1.00	319.70	6,794.3	-197.7	431.8	-183.1	0.99	-0.37	44.07
7,004.0	1.50	304.10	6,983.3	-195.1	428.7	-180.6	0.32	0.26	-8.25
7,193.0	0.10	242.40	7,172.3	-193.7	426.5	-179.3	0.77	-0.74	-32.65
7,382.0	0.50	242.90	7,361.3	-194.2	425.6	-179.8	0.21	0.21	0.26
7,571.0	0.70	222.20	7,550.3	-195.4	424.1	-181.1	0.15	0.11	-10.95
7,760.0	0.50	211.30	7,739.2	-197.0	422.9	-182.7	0.12	-0.11	-5.77
7,951.0	0.30	163.80	7,930.2	-198.2	422.6	-183.9	0.19	-0.10	-24.87
8,141.0	0.40	144.80	8,120.2	-199.2	423.1	-184.9	0.08	0.05	-10.00
8,330.0	0.70	8.90	8,309.2	-198.6	423.7	-184.3	0.54	0.16	-71.90
8,520.0	0.40	18.80	8,499.2	-196.8	424.1	-182.5	0.17	-0.16	5.21
8,709.0	0.40	65.40	8,688.2	-195.9	424.9	-181.6	0.17	0.00	24.66
8,898.0	0.60	158.00	8,877.2	-196.6	425.8	-182.2	0.39	0.11	48.99
9,087.0	0.40	289.60	9,066.2	-197.3	425.6	-182.9	0.48	-0.11	69.63
9,277.0	1.10	9.90	9,256.2	-195.2	425.3	-180.9	0.58	0.37	42.26
9,467.0	1.70	15.70	9,446.1	-190.7	426.4	-176.3	0.32	0.32	3.05
9,656.0	0.70	192.80	9,635.1	-189.2	426.9	-174.7	1.27	-0.53	93.70
9,846.0	2.20	238.50	9,825.1	-192.2	423.5	-177.9	0.94	0.79	24.05



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 W0NC Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Site:	Section 34 27-21S-32E Bilbrey	MD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Well:	Bilbrey 34-27 W0NC Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,035.0	0.90	279.80	10,014.0	-193.8	418.9	-179.7	0.87	-0.69	21.85
10,225.0	0.90	7.50	10,204.0	-192.1	417.7	-178.0	0.66	0.00	46.16
10,413.0	0.70	6.30	10,392.0	-189.5	418.0	-175.4	0.11	-0.11	-0.64
10,603.0	0.40	85.30	10,582.0	-188.3	418.8	-174.1	0.39	-0.16	41.58
10,792.0	0.70	217.40	10,770.9	-189.2	418.7	-175.0	0.54	0.16	69.89
10,982.0	0.70	262.70	10,960.9	-190.2	416.9	-176.1	0.28	0.00	23.84
11,172.0	0.80	250.20	11,150.9	-190.8	414.5	-176.8	0.10	0.05	-6.58
11,361.0	1.90	282.60	11,339.9	-190.6	410.2	-176.7	0.69	0.58	17.14
11,442.0	1.70	280.90	11,420.8	-190.1	407.7	-176.3	0.26	-0.25	-2.10
11,479.0	1.80	286.20	11,457.8	-189.8	406.6	-176.1	0.51	0.27	14.32
11,526.0	4.80	325.50	11,504.7	-188.0	404.8	-174.3	7.64	6.38	83.62
11,573.0	10.60	352.70	11,551.3	-182.1	403.1	-168.4	14.25	12.34	57.87
11,620.0	16.80	7.30	11,597.0	-171.0	403.4	-157.4	15.01	13.19	31.06
11,668.0	22.30	10.30	11,642.2	-155.2	405.9	-141.5	11.64	11.46	6.25
11,715.0	27.40	12.10	11,684.8	-135.8	409.8	-122.0	10.97	10.85	3.83
11,763.0	32.40	11.90	11,726.4	-112.4	414.8	-98.4	10.42	10.42	-0.42
11,810.0	37.30	11.50	11,765.0	-86.1	420.2	-72.0	10.44	10.43	-0.85
11,857.0	42.20	10.10	11,801.1	-56.6	425.8	-42.3	10.60	10.43	-2.98
11,904.0	47.20	9.00	11,834.5	-24.0	431.3	-9.5	10.76	10.64	-2.34
11,952.0	51.30	9.40	11,865.8	11.9	437.1	26.5	8.56	8.54	0.83
11,999.0	54.30	8.30	11,894.2	48.9	442.8	63.7	6.65	6.38	-2.34
12,047.0	59.70	5.00	11,920.4	88.8	447.5	103.8	12.64	11.25	-6.88
12,094.0	65.70	3.70	11,941.9	130.5	450.6	145.5	13.00	12.77	-2.77
12,142.0	68.70	1.90	11,960.5	174.6	452.8	189.7	7.14	6.25	-3.75
12,189.0	74.20	1.70	11,975.5	219.2	454.2	234.3	11.71	11.70	-0.43
12,236.0	79.00	1.70	11,986.3	264.8	455.5	280.0	10.21	10.21	0.00
12,267.0	84.00	1.70	11,990.9	295.5	456.4	310.6	16.13	16.13	0.00
12,326.0	88.40	359.80	11,994.8	<u>354.3</u>	<u>457.2</u>	369.5	8.12	7.46	-3.22
12,358.0	88.50	359.90	11,995.7	386.3	457.1	401.4	0.44	0.31	0.31
12,452.0	88.80	358.70	11,997.9	480.3	456.0	495.3	1.32	0.32	-1.28
12,547.0	88.70	358.20	12,000.0	575.2	453.4	590.1	0.54	-0.11	-0.53
12,642.0	89.80	358.50	12,001.2	670.2	450.7	684.9	1.20	1.16	0.32
12,736.0	89.60	358.80	12,001.7	764.2	448.4	778.8	0.38	-0.21	0.32
12,831.0	90.20	359.30	12,001.9	859.1	446.9	873.6	0.82	0.63	0.53
12,925.0	89.70	358.70	12,002.0	953.1	445.2	967.5	0.83	-0.53	-0.64
13,020.0	90.20	357.10	12,002.1	1,048.1	441.8	1,062.3	1.76	0.53	-1.68
13,116.0	90.50	357.90	12,001.5	1,144.0	437.6	1,158.0	0.89	0.31	0.83
13,210.0	91.60	1.30	11,999.7	1,237.9	436.9	1,251.9	3.80	1.17	3.62
13,305.0	90.50	3.20	11,998.0	1,332.8	440.6	1,346.9	2.31	-1.16	2.00
13,399.0	90.80	1.80	11,996.9	1,426.7	444.7	1,440.8	1.52	0.32	-1.49
13,494.0	90.50	0.60	11,995.9	1,521.7	446.7	1,535.8	1.30	-0.32	-1.26
13,589.0	90.60	358.70	11,994.9	1,616.7	446.1	1,630.8	2.00	0.11	-2.00
13,684.0	90.60	357.90	11,994.0	1,711.6	443.3	1,725.6	0.84	0.00	-0.84



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 W0NC Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Site:	Section 34 27-21S-32E Bilbrey	MD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Well:	Bilbrey 34-27 W0NC Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,778.0	90.40	357.60	11,993.1	1,805.6	439.6	1,819.3	0.38	-0.21	-0.32
13,872.0	89.90	357.20	11,992.9	1,899.5	435.4	1,913.0	0.68	-0.53	-0.43
13,967.0	91.10	357.60	11,992.1	1,994.4	431.1	2,007.7	1.33	1.26	0.42
14,061.0	91.00	357.60	11,990.3	2,088.3	427.1	2,101.4	0.11	-0.11	0.00
14,155.0	91.10	357.90	11,988.6	2,182.2	423.4	2,195.2	0.34	0.11	0.32
14,250.0	91.00	359.30	11,986.9	2,277.1	421.1	2,290.0	1.48	-0.11	1.47
14,344.0	91.30	359.90	11,985.0	2,371.1	420.5	2,383.9	0.71	0.32	0.64
14,439.0	90.60	359.80	11,983.4	2,466.1	420.2	2,478.8	0.74	-0.74	-0.11
14,532.0	90.60	359.00	11,982.4	2,559.1	419.2	2,571.7	0.86	0.00	-0.86
14,627.0	90.50	358.50	11,981.5	2,654.1	417.2	2,666.6	0.54	-0.11	-0.53
14,721.0	90.70	358.60	11,980.5	2,748.0	414.8	2,760.4	0.24	0.21	0.11
14,815.0	90.50	358.90	11,979.6	2,842.0	412.7	2,854.2	0.38	-0.21	0.32
14,910.0	90.50	359.20	11,978.7	2,937.0	411.2	2,949.1	0.32	0.00	0.32
15,005.0	90.50	359.80	11,977.9	3,032.0	410.3	3,044.0	0.63	0.00	0.63
15,099.0	91.00	358.50	11,976.7	3,126.0	408.9	3,137.9	1.48	0.53	-1.38
15,194.0	90.30	359.40	11,975.6	3,220.9	407.2	3,232.8	1.20	-0.74	0.95
15,288.0	90.50	1.00	11,974.9	3,314.9	407.5	3,326.7	1.72	0.21	1.70
15,383.0	90.40	0.40	11,974.2	3,409.9	408.7	3,421.7	0.64	-0.11	-0.63
15,477.0	90.80	0.30	11,973.2	3,503.9	409.3	3,515.7	0.44	0.43	-0.11
15,571.0	90.50	0.60	11,972.1	3,597.9	410.0	3,609.6	0.45	-0.32	0.32
15,665.0	90.60	0.90	11,971.2	3,691.9	411.2	3,703.6	0.34	0.11	0.32
15,759.0	90.40	359.90	11,970.4	3,785.9	411.9	3,797.6	1.08	-0.21	-1.06
15,853.0	90.40	359.30	11,969.8	3,879.9	411.2	3,891.5	0.64	0.00	-0.64
15,947.0	90.60	358.40	11,968.9	3,973.8	409.3	3,985.3	0.98	0.21	-0.96
16,042.0	90.30	357.60	11,968.2	4,068.8	406.0	4,080.1	0.90	-0.32	-0.84
16,137.0	90.30	357.70	11,967.7	4,163.7	402.1	4,174.9	0.11	0.00	0.11
16,232.0	90.70	358.80	11,966.9	4,258.7	399.2	4,269.7	1.23	0.42	1.16
16,326.0	90.20	0.20	11,966.1	4,352.6	398.4	4,363.6	1.58	-0.53	1.49
16,421.0	90.50	1.90	11,965.5	4,447.6	400.2	4,458.5	1.82	0.32	1.79
16,515.0	90.50	1.40	11,964.7	4,541.6	402.9	4,552.5	0.53	0.00	-0.53
16,610.0	90.60	1.70	11,963.8	4,636.5	405.4	4,647.5	0.33	0.11	0.32
16,705.0	90.90	1.60	11,962.6	4,731.5	408.2	4,742.5	0.33	0.32	-0.11
16,800.0	90.70	2.00	11,961.2	4,826.4	411.1	4,837.5	0.47	-0.21	0.42
16,894.0	90.80	2.40	11,960.0	4,920.4	414.8	4,931.5	0.44	0.11	0.43
16,989.0	90.70	2.40	11,958.8	5,015.3	418.7	5,026.5	0.11	-0.11	0.00
17,084.0	90.70	1.80	11,957.6	5,110.2	422.2	5,121.5	0.63	0.00	-0.63
17,178.0	91.00	2.50	11,956.2	5,204.1	425.7	5,215.5	0.81	0.32	0.74
17,273.0	90.20	1.90	11,955.2	5,299.0	429.4	5,310.5	1.05	-0.84	-0.63
17,368.0	90.50	0.90	11,954.6	5,394.0	431.7	5,405.5	1.10	0.32	-1.05
17,462.0	90.30	0.00	11,954.0	5,488.0	432.4	5,499.4	0.98	-0.21	-0.96
17,557.0	90.20	358.90	11,953.6	5,583.0	431.5	5,594.3	1.16	-0.11	-1.16
17,652.0	90.20	358.60	11,953.2	5,678.0	429.5	5,689.2	0.32	0.00	-0.32
17,747.0	90.20	358.10	11,952.9	5,772.9	426.7	5,784.0	0.53	0.00	-0.53



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 W0NC Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Site:	Section 34 27-21S-32E Bilbrey	MD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Well:	Bilbrey 34-27 W0NC Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,842.0	90.10	358.20	11,952.7	5,867.9	423.7	5,878.8	0.15	-0.11	0.11
17,937.0	90.20	358.00	11,952.4	5,962.8	420.5	5,973.6	0.24	0.11	-0.21
18,031.0	89.70	357.40	11,952.5	6,056.8	416.7	6,067.3	0.83	-0.53	-0.64
18,126.0	90.90	356.50	11,952.0	6,151.6	411.7	6,162.0	1.58	1.26	-0.95
18,221.0	90.90	358.20	11,950.5	6,246.5	407.3	6,256.7	1.79	0.00	1.79
18,316.0	91.20	359.20	11,948.8	6,341.5	405.1	6,351.5	1.10	0.32	1.05
18,410.0	91.20	358.50	11,946.8	6,435.4	403.3	6,445.3	0.74	0.00	-0.74
18,505.0	91.00	358.50	11,945.0	6,530.4	400.8	6,540.1	0.21	-0.21	0.00
18,600.0	90.80	358.30	11,943.5	6,625.3	398.1	6,634.9	0.30	-0.21	-0.21
18,695.0	91.00	359.50	11,942.0	6,720.3	396.3	6,729.8	1.28	0.21	1.26
18,790.0	90.80	0.80	11,940.5	6,815.3	396.5	6,824.7	1.38	-0.21	1.37
18,885.0	90.60	1.90	11,939.3	6,910.2	398.8	6,919.7	1.18	-0.21	1.18
18,980.0	89.50	1.50	11,939.2	7,005.2	401.6	7,014.7	1.23	-1.16	-0.42
19,075.0	91.10	0.80	11,938.7	7,100.2	403.5	7,109.7	1.84	1.68	-0.74
19,169.0	91.70	1.90	11,936.5	7,194.1	405.7	7,203.7	1.33	0.64	1.17
19,264.0	91.10	2.20	11,934.1	7,289.0	409.1	7,298.7	0.71	-0.63	0.32
19,359.0	91.10	1.50	11,932.3	7,384.0	412.2	7,393.6	0.74	0.00	-0.74
19,453.0	90.60	0.20	11,930.9	7,477.9	413.6	7,487.6	1.48	-0.53	-1.38
19,548.0	89.40	359.00	11,930.9	7,572.9	412.9	7,582.5	1.79	-1.26	-1.26
19,643.0	90.50	358.30	11,931.0	7,667.9	410.7	7,677.4	1.37	1.16	-0.74
19,738.0	90.10	357.70	11,930.5	7,762.8	407.4	7,772.1	0.78	-0.42	-0.63
19,832.0	90.10	357.00	11,930.3	7,856.7	403.0	7,865.8	0.74	0.00	-0.74
19,927.0	89.90	357.20	11,930.3	7,951.6	398.2	7,960.5	0.30	-0.21	0.21
20,022.0	90.10	357.60	11,930.3	8,046.5	393.9	8,055.2	0.47	0.21	0.42
20,117.0	89.90	357.90	11,930.3	8,141.5	390.2	8,150.0	0.38	-0.21	0.32
20,212.0	90.70	358.30	11,929.8	8,236.4	387.0	8,244.7	0.94	0.84	0.42
20,307.0	90.60	359.40	11,928.8	8,331.4	385.1	8,339.6	1.16	-0.11	1.16
20,402.0	90.60	359.40	11,927.8	8,426.4	384.1	8,434.5	0.00	0.00	0.00
20,497.0	90.70	359.00	11,926.7	8,521.3	382.8	8,529.4	0.43	0.11	-0.42
20,592.0	89.70	358.70	11,926.4	8,616.3	380.9	8,624.3	1.10	-1.05	-0.32
20,687.0	90.90	359.30	11,925.9	8,711.3	379.2	8,719.1	1.41	1.26	0.63
20,782.0	90.90	0.00	11,924.4	8,806.3	378.6	8,814.0	0.74	0.00	0.74
20,877.0	91.20	0.60	11,922.6	8,901.3	379.1	8,909.0	0.71	0.32	0.63
20,980.0	89.90	359.30	11,921.6	9,004.3	379.1	9,011.9	1.78	-1.26	-1.26
21,075.0	89.80	359.00	11,921.9	9,099.3	377.6	9,106.8	0.33	-0.11	-0.32
21,169.0	90.90	0.40	11,921.3	9,193.2	377.1	9,200.7	1.89	1.17	1.49
21,264.0	89.60	359.70	11,920.9	9,288.2	377.2	9,295.7	1.55	-1.37	-0.74
21,359.0	92.10	359.40	11,919.5	9,383.2	376.5	9,390.6	2.65	2.63	-0.32
21,453.0	90.70	358.40	11,917.2	9,477.2	374.7	9,484.4	1.83	-1.49	-1.08
21,548.0	90.90	358.30	11,915.9	9,572.1	371.9	9,579.2	0.24	0.21	-0.11
21,643.0	90.80	357.20	11,914.5	9,667.0	368.2	9,673.9	1.16	-0.11	-1.16
21,738.0	91.10	356.90	11,912.9	9,761.9	363.3	9,768.6	0.45	0.32	-0.32
21,832.0	91.60	357.20	11,910.7	9,855.7	358.5	9,862.2	0.62	0.53	0.32
21,927.0	90.90	357.60	11,908.6	9,950.6	354.2	9,956.9	0.85	-0.74	0.42



Stryker Energy Directional Services
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 W0NC Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Site:	Section 34 27-21S-32E Bilbrey	MD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Well:	Bilbrey 34-27 W0NC Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,022.0	83.20	358.90	11,905.2	10,045.5	351.3	10,051.6	2.78	2.42	1.37
22,117.0	81.60	358.80	11,901.3	10,140.4	348.4	10,146.4	1.78	-1.78	-0.11
22,221.0	89.20	357.80	11,900.7	10,244.4	348.3	10,250.2	2.41	-2.21	-0.98
22,255.0	89.20	357.80	11,901.1	10,278.3	345.0	10,284.1	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N/-S (usft)	+E/-W (usft)	Comment
22,255.0	11,901.1	10,278.3	345.0	22255.0' Projected to bit

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------



Mewbourne Oil Company

**Lea County N. M. Nad (83)
Section 34 27-21S-32E Bilbrey
Bilbrey 34-27 W0NC Fed Com #1H**

Original Hole

Design: Original Hole

Survey Report - Geographic

04 October, 2019





Stryker Energy Directional Services

Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 W0NC Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3782+27 @ 3779.0usft (Patterson 217)
Site:	Section 34 27-218-32E Bilbrey	MD Reference:	3782+27 @ 3779.0usft (Patterson 217)
Well:	Bilbrey 34-27 W0NC Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM8000

Project	Lea County N. M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 34 27-218-32E Bilbrey				
Site Position:		Northing:	820,274.78 usft	Latitude:	32° 28' 42.738 N
From:	Map	Easting:	746,988.10 usft	Longitude:	103° 40' 0.387 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.36°

Well	Bilbrey 34-27 W0NC Fed Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	820,275.00 usft	Latitude:	32° 28' 42.738 N
	+E/-W	0.0 usft	Easting:	746,988.10 usft	Longitude:	103° 40' 0.387 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	27.0 usft	Ground Level:	3,752.0 usft

Wellbore	Original Hole					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2018	07/14/18	6.78	60.21	47,833.30833831	

Design	Original Hole					
Audit Notes:						
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)		
	0.0	0.0	0.0	1.82		

Survey Program	Date 10/04/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
187.0	22,288.0	Stryker Surveys (Original Hole)	MWD	MWD v3:standard declination

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	820,275.00	746,988.10	32° 28' 42.738 N	103° 40' 0.387 W
187.0	0.80	134.40	187.0	-0.8	0.8	820,274.43	746,988.88	32° 28' 42.733 N	103° 40' 0.380 W
384.0	5.70	118.10	383.8	-6.2	10.4	820,268.82	747,008.83	32° 28' 42.877 N	103° 40' 0.288 W
548.0	5.80	124.80	543.7	-18.7	28.0	820,259.31	747,024.12	32° 28' 42.882 N	103° 40' 0.084 W
724.0	8.30	129.80	721.7	-27.2	41.1	820,247.78	747,039.23	32° 28' 42.487 N	103° 38' 58.808 W
920.0	7.80	134.40	918.2	-43.2	58.8	820,231.81	747,058.74	32° 28' 42.308 N	103° 38' 58.708 W
1,113.0	8.80	118.80	1,107.7	-57.8	77.7	820,217.18	747,075.78	32° 28' 42.182 N	103° 38' 58.488 W
1,301.0	3.70	121.40	1,284.8	-68.8	92.8	820,208.48	747,080.88	32° 28' 42.078 N	103° 38' 58.312 W
1,488.0	5.00	103.10	1,482.4	-71.8	105.7	820,203.48	747,103.78	32° 28' 42.028 N	103° 38' 58.188 W
1,678.0	8.40	101.00	1,671.8	-78.1	122.8	820,198.88	747,120.88	32° 28' 41.988 N	103° 38' 58.883 W
1,868.0	4.70	102.80	1,867.0	-78.8	138.8	820,196.84	747,138.71	32° 28' 41.984 N	103° 38' 58.778 W
2,084.0	3.80	101.30	2,046.3	-81.4	182.4	820,193.82	747,150.80	32° 28' 41.824 N	103° 38' 58.814 W



Stryker Energy Directional Services

Survey Report - Geographic



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 34 27-218-32E Bilbrey
Well: Bilbrey 34-27 W0NC Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 W0NC Fed Com #1H
TVD Reference: 3752+27 @ 3779.0ust (Patterson 217)
MD Reference: 3752+27 @ 3779.0ust (Patterson 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM8000

Survey

Measured Depth (uoft)	Inclination (°)	Azimuth (°)	Vertical Depth (uoft)	+N/-S (uoft)	+E/-W (uoft)	Map Northing (uoft)	Map Easting (uoft)	Latitude	Longitude
2,243.0	3.80	99.20	2,233.9	-83.3	164.6	520,181.72	747,162.70	32° 28' 41.808 N	103° 39' 58.472 W
2,430.0	6.20	113.80	2,420.2	-87.9	179.7	520,187.06	747,177.80	32° 28' 41.858 N	103° 39' 58.296 W
2,618.0	7.00	110.30	2,607.0	-96.0	199.6	520,179.04	747,197.86	32° 28' 41.777 N	103° 39' 58.063 W
2,807.0	8.70	103.60	2,794.8	-102.2	219.7	520,172.83	747,217.78	32° 28' 41.714 N	103° 39' 57.831 W
2,996.0	6.00	108.00	2,983.0	-106.9	236.6	520,169.08	747,234.74	32° 28' 41.666 N	103° 39' 57.633 W
3,185.0	3.80	107.10	3,171.6	-111.3	250.5	520,163.69	747,248.66	32° 28' 41.622 N	103° 39' 57.473 W
3,373.0	2.20	113.20	3,369.2	-114.6	269.7	520,160.44	747,267.83	32° 28' 41.589 N	103° 39' 57.366 W
3,560.0	6.80	116.60	3,546.7	-120.2	271.6	520,154.78	747,288.66	32° 28' 41.533 N	103° 39' 57.226 W
3,749.0	6.10	109.30	3,733.9	-127.3	286.0	520,147.74	747,288.08	32° 28' 41.462 N	103° 39' 57.036 W
3,936.0	4.20	111.40	3,922.2	-132.6	302.3	520,142.44	747,300.42	32° 28' 41.409 N	103° 39' 56.869 W
4,126.0	2.60	123.00	4,109.9	-137.6	312.6	520,137.43	747,310.68	32° 28' 41.368 N	103° 39' 56.750 W
4,312.0	3.60	97.80	4,295.6	-140.6	322.0	520,134.21	747,320.12	32° 28' 41.326 N	103° 39' 56.640 W
4,499.0	2.60	98.70	4,482.3	-142.0	331.7	520,132.99	747,329.83	32° 28' 41.313 N	103° 39' 56.526 W
4,681.0	1.80	98.10	4,664.2	-142.3	336.6	520,132.72	747,336.63	32° 28' 41.310 N	103° 39' 56.447 W
4,744.0	1.60	98.80	4,727.2	-142.2	340.4	520,132.84	747,338.49	32° 28' 41.311 N	103° 39' 56.426 W
4,933.0	3.90	100.00	4,919.0	-143.1	349.4	520,131.67	747,347.46	32° 28' 41.301 N	103° 39' 56.321 W
5,121.0	3.70	114.30	5,103.6	-146.7	361.2	520,128.26	747,359.28	32° 28' 41.266 N	103° 39' 56.183 W
5,307.0	4.00	114.20	5,289.1	-151.9	372.6	520,123.13	747,370.67	32° 28' 41.213 N	103° 39' 56.061 W
5,494.0	4.20	109.80	5,478.7	-156.6	385.0	520,118.16	747,383.07	32° 28' 41.163 N	103° 39' 55.966 W
5,679.0	4.20	110.20	5,660.2	-161.6	397.7	520,113.58	747,396.61	32° 28' 41.117 N	103° 39' 55.786 W
5,867.0	4.50	128.40	5,847.6	-166.1	410.2	520,108.90	747,408.28	32° 28' 41.060 N	103° 39' 55.613 W
6,057.0	3.60	131.80	6,037.1	-176.4	420.7	520,098.60	747,418.60	32° 28' 40.987 N	103° 39' 55.481 W
6,246.0	3.90	130.30	6,226.7	-184.5	430.0	520,090.48	747,428.12	32° 28' 40.887 N	103° 39' 55.383 W
6,436.0	2.30	169.80	6,414.6	-192.2	436.2	520,082.76	747,434.32	32° 28' 40.810 N	103° 39' 55.311 W
6,626.0	1.70	236.40	6,606.4	-197.4	436.2	520,077.69	747,433.28	32° 28' 40.769 N	103° 39' 55.324 W
6,816.0	1.00	319.70	6,794.3	-197.7	431.8	520,077.30	747,429.68	32° 28' 40.766 N	103° 39' 55.363 W
7,004.0	1.60	304.10	6,983.3	-196.1	426.7	520,079.94	747,426.78	32° 28' 40.782 N	103° 39' 55.399 W
7,193.0	0.10	242.40	7,172.3	-193.7	426.6	520,081.26	747,424.67	32° 28' 40.798 N	103° 39' 55.426 W
7,382.0	0.60	242.80	7,361.3	-194.2	426.6	520,080.60	747,423.69	32° 28' 40.791 N	103° 39' 55.435 W
7,571.0	0.70	222.20	7,550.3	-196.4	424.1	520,079.67	747,422.18	32° 28' 40.779 N	103° 39' 55.463 W
7,760.0	0.60	211.30	7,739.2	-197.0	422.9	520,079.01	747,420.97	32° 28' 40.764 N	103° 39' 55.467 W
7,951.0	0.30	163.80	7,930.2	-198.2	422.6	520,076.82	747,420.66	32° 28' 40.752 N	103° 39' 55.471 W
8,141.0	0.40	144.80	8,120.2	-199.2	423.1	520,076.60	747,421.20	32° 28' 40.742 N	103° 39' 55.466 W
8,330.0	0.70	8.90	8,309.2	-198.6	423.7	520,076.40	747,421.78	32° 28' 40.748 N	103° 39' 55.468 W
8,520.0	0.40	16.80	8,499.2	-196.6	424.1	520,076.17	747,422.16	32° 28' 40.768 N	103° 39' 55.463 W
8,709.0	0.40	68.40	8,688.2	-196.9	424.9	520,076.07	747,422.97	32° 28' 40.774 N	103° 39' 55.444 W
8,896.0	0.60	198.00	8,877.2	-196.6	425.8	520,076.43	747,423.64	32° 28' 40.766 N	103° 39' 55.433 W
9,087.0	0.40	289.60	9,066.2	-197.3	426.6	520,077.73	747,423.69	32° 28' 40.781 N	103° 39' 55.436 W
9,277.0	1.10	9.90	9,256.2	-196.2	426.3	520,076.76	747,423.37	32° 28' 40.781 N	103° 39' 55.439 W
9,467.0	1.70	18.70	9,446.1	-190.7	426.4	520,084.26	747,424.48	32° 28' 40.826 N	103° 39' 55.426 W
9,656.0	0.70	192.80	9,636.1	-196.2	426.9	520,085.84	747,424.66	32° 28' 40.841 N	103° 39' 55.420 W
9,846.0	2.20	236.60	9,826.1	-192.2	423.6	520,082.60	747,421.69	32° 28' 40.811 N	103° 39' 55.460 W
10,036.0	0.60	279.80	10,014.0	-193.6	418.9	520,081.16	747,417.03	32° 28' 40.796 N	103° 39' 55.513 W
10,226.0	0.90	7.80	10,204.0	-192.1	417.7	520,082.69	747,416.78	32° 28' 40.812 N	103° 39' 55.526 W
10,413.0	0.70	6.30	10,392.0	-189.6	416.0	520,085.49	747,416.07	32° 28' 40.838 N	103° 39' 55.524 W
10,603.0	0.40	88.30	10,582.0	-186.3	416.8	520,086.70	747,416.66	32° 28' 40.860 N	103° 39' 55.514 W
10,792.0	0.70	217.40	10,770.9	-189.2	416.7	520,086.84	747,416.62	32° 28' 40.841 N	103° 39' 55.516 W
10,982.0	0.70	262.70	10,960.9	-190.2	416.9	520,084.77	747,414.66	32° 28' 40.831 N	103° 39' 55.537 W
11,172.0	0.60	260.20	11,150.9	-190.8	414.6	520,084.17	747,412.66	32° 28' 40.826 N	103° 39' 55.566 W
11,361.0	1.90	262.60	11,339.9	-190.6	410.2	520,084.41	747,408.26	32° 28' 40.826 N	103° 39' 55.616 W
11,442.0	1.70	260.80	11,420.8	-190.1	407.7	520,084.93	747,408.77	32° 28' 40.833 N	103° 39' 55.644 W
11,479.0	1.60	266.20	11,457.8	-189.6	406.6	520,085.20	747,404.66	32° 28' 40.836 N	103° 39' 55.667 W
11,526.0	4.80	326.80	11,504.7	-188.0	404.8	520,087.02	747,402.66	32° 28' 40.864 N	103° 39' 55.676 W
11,573.0	10.60	382.70	11,551.3	-182.1	403.1	520,092.84	747,401.16	32° 28' 40.913 N	103° 39' 55.697 W
11,620.0	16.80	7.30	11,597.0	-171.0	403.4	520,103.96	747,401.60	32° 28' 41.022 N	103° 39' 55.692 W



Stryker Energy Directional Services

Survey Report - Geographic



Company: Mawbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 34 27-21S-32E Billbrey
Well: Billbrey 34-27 W0NC Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Billbrey 34-27 W0NC Fed Com #1H
TVD Reference: 3752+27 @ 3779.0usft (Patterson 217)
MD Reference: 3752+27 @ 3779.0usft (Patterson 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM8000

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,000.0	22.30	10.30	11,042.2	-105.2	409.9	820,119.83	747,404.01	32° 28' 41.178 N	103° 39' 55.692 W
11,715.0	27.40	12.10	11,084.8	-138.8	409.8	820,139.19	747,407.88	32° 28' 41.370 N	103° 39' 55.618 W
11,763.0	32.40	11.90	11,726.4	-112.4	414.8	820,162.59	747,412.88	32° 28' 41.601 N	103° 39' 55.556 W
11,810.0	37.30	11.80	11,766.0	-86.1	420.2	820,188.88	747,418.29	32° 28' 41.881 N	103° 39' 55.490 W
11,857.0	42.20	10.10	11,801.1	-56.6	426.8	820,218.40	747,423.90	32° 28' 42.163 N	103° 39' 55.423 W
11,904.0	47.20	8.00	11,834.8	-24.0	431.3	820,250.99	747,429.37	32° 28' 42.476 N	103° 39' 55.357 W
11,952.0	51.30	9.40	11,866.8	11.9	437.1	820,289.87	747,436.18	32° 28' 42.829 N	103° 39' 55.286 W
11,999.0	54.30	8.30	11,894.2	48.9	442.8	820,323.86	747,440.84	32° 28' 43.196 N	103° 39' 55.216 W
12,047.0	58.70	8.00	11,920.4	88.8	447.8	820,363.83	747,446.56	32° 28' 43.690 N	103° 39' 55.159 W
12,094.0	58.70	3.70	11,941.9	130.5	450.6	820,405.48	747,448.71	32° 28' 44.002 N	103° 39' 55.120 W
12,142.0	58.70	1.90	11,960.5	174.6	452.8	820,449.64	747,450.87	32° 28' 44.439 N	103° 39' 55.091 W
12,189.0	74.20	1.70	11,978.5	219.2	454.2	820,494.16	747,452.26	32° 28' 44.879 N	103° 39' 55.072 W
12,236.0	78.00	1.70	11,996.3	264.8	456.8	820,539.88	747,453.62	32° 28' 45.331 N	103° 39' 55.053 W
12,287.0	84.00	1.70	11,990.9	295.5	456.4	820,570.48	747,454.53	32° 28' 45.835 N	103° 39' 55.040 W
12,326.0	88.40	359.80	11,994.8	354.3	457.2	820,629.33	747,456.30	32° 28' 46.217 N	103° 39' 55.026 W
12,368.0	88.60	359.80	11,995.7	366.3	457.1	820,661.32	747,456.21	32° 28' 46.533 N	103° 39' 55.025 W
12,482.0	88.80	358.70	11,997.9	480.3	456.0	820,788.29	747,454.07	32° 28' 47.463 N	103° 39' 55.032 W
12,547.0	88.70	358.20	12,000.0	575.2	453.4	820,860.23	747,451.80	32° 28' 48.403 N	103° 39' 55.055 W
12,642.0	88.80	358.80	12,001.2	670.2	450.7	820,946.18	747,448.76	32° 28' 49.343 N	103° 39' 55.080 W
12,736.0	88.80	358.80	12,001.7	764.2	448.4	821,039.18	747,446.88	32° 28' 50.273 N	103° 39' 55.099 W
12,831.0	90.20	359.30	12,001.8	859.1	446.9	821,134.14	747,444.97	32° 28' 51.213 N	103° 39' 55.110 W
12,926.0	90.70	358.70	12,002.0	953.1	445.2	821,228.12	747,443.33	32° 28' 52.143 N	103° 39' 55.122 W
13,020.0	90.20	357.10	12,002.1	1,048.1	441.8	821,323.06	747,439.88	32° 28' 53.082 N	103° 39' 55.156 W
13,116.0	90.50	357.90	12,001.5	1,144.0	437.6	821,418.96	747,436.86	32° 28' 54.031 N	103° 39' 55.198 W
13,210.0	91.80	1.30	11,999.7	1,237.9	436.9	821,512.93	747,436.01	32° 28' 54.981 N	103° 39' 55.189 W
13,305.0	90.50	3.20	11,998.0	1,332.8	440.6	821,607.93	747,436.73	32° 28' 55.900 N	103° 39' 55.148 W
13,399.0	90.80	1.80	11,996.9	1,426.7	444.7	821,701.74	747,442.83	32° 28' 56.829 N	103° 39' 55.094 W
13,494.0	90.80	0.60	11,998.9	1,521.7	448.7	821,798.71	747,444.82	32° 28' 57.769 N	103° 39' 55.063 W
13,589.0	90.60	358.70	11,994.9	1,616.7	446.1	821,891.70	747,444.24	32° 28' 58.709 N	103° 39' 55.063 W
13,684.0	90.60	357.90	11,994.0	1,711.6	443.3	821,986.66	747,441.43	32° 28' 59.648 N	103° 39' 55.089 W
13,778.0	90.40	357.60	11,993.1	1,806.6	439.6	822,080.57	747,437.74	32° 28' 0.576 N	103° 39' 55.128 W
13,872.0	89.80	357.20	11,992.9	1,899.6	435.4	822,174.47	747,433.47	32° 28' 1.507 N	103° 39' 55.168 W
13,967.0	91.10	357.60	11,992.1	1,994.4	431.1	822,269.37	747,429.16	32° 28' 2.447 N	103° 39' 55.212 W
14,061.0	91.00	357.60	11,990.3	2,088.3	427.1	822,363.27	747,426.23	32° 28' 3.376 N	103° 39' 55.251 W
14,155.0	91.10	357.90	11,988.6	2,182.2	423.4	822,457.18	747,421.54	32° 28' 4.306 N	103° 39' 55.287 W
14,250.0	91.00	359.30	11,986.9	2,277.1	421.1	822,552.14	747,419.22	32° 28' 5.246 N	103° 39' 55.307 W
14,344.0	91.30	359.80	11,985.0	2,371.1	420.5	822,646.12	747,416.86	32° 28' 6.176 N	103° 39' 55.308 W
14,439.0	90.80	359.80	11,983.4	2,466.1	420.2	822,741.10	747,416.31	32° 28' 7.116 N	103° 39' 55.304 W
14,532.0	90.60	359.00	11,982.4	2,559.1	419.2	822,834.09	747,417.34	32° 28' 8.036 N	103° 39' 55.309 W
14,627.0	90.80	358.60	11,981.8	2,654.1	417.2	822,928.08	747,416.27	32° 28' 8.976 N	103° 39' 55.328 W
14,721.0	90.70	358.60	11,980.5	2,748.0	414.8	823,023.03	747,412.89	32° 28' 9.906 N	103° 39' 55.347 W
14,816.0	90.80	358.60	11,979.6	2,842.0	412.7	823,117.00	747,410.84	32° 28' 10.836 N	103° 39' 55.364 W
14,910.0	90.80	359.20	11,978.7	2,937.0	411.2	823,211.98	747,409.26	32° 28' 11.776 N	103° 39' 55.376 W
15,005.0	90.80	358.60	11,977.9	3,032.0	410.3	823,306.98	747,408.43	32° 28' 12.716 N	103° 39' 55.378 W
15,099.0	91.00	358.60	11,976.7	3,126.0	408.9	823,400.99	747,407.04	32° 28' 13.646 N	103° 39' 55.387 W
15,194.0	90.30	359.40	11,975.6	3,220.9	407.2	823,495.93	747,406.30	32° 28' 14.586 N	103° 39' 55.401 W
15,288.0	90.80	1.00	11,974.9	3,314.9	407.5	823,589.93	747,405.63	32° 28' 15.516 N	103° 39' 55.390 W
15,383.0	90.40	0.40	11,974.2	3,408.7	406.7	823,684.92	747,406.79	32° 28' 16.456 N	103° 39' 55.370 W
15,477.0	90.80	0.30	11,973.2	3,503.9	409.3	823,778.91	747,407.38	32° 28' 17.386 N	103° 39' 55.356 W
15,571.0	90.80	0.60	11,972.1	3,597.9	410.0	823,872.90	747,408.10	32° 28' 18.316 N	103° 39' 55.341 W
15,666.0	90.60	0.90	11,971.2	3,691.9	411.2	823,966.89	747,409.33	32° 28' 19.246 N	103° 39' 55.319 W
15,760.0	90.40	359.80	11,970.4	3,785.9	411.9	824,060.88	747,409.98	32° 28' 20.176 N	103° 39' 55.305 W
15,855.0	90.40	359.30	11,969.6	3,879.9	411.2	824,154.87	747,409.33	32° 28' 21.106 N	103° 39' 55.306 W
15,947.0	90.80	358.40	11,968.9	3,973.8	409.3	824,248.86	747,407.44	32° 28' 22.036 N	103° 39' 55.321 W
16,042.0	90.30	357.60	11,968.2	4,068.8	406.0	824,343.79	747,404.13	32° 28' 22.976 N	103° 39' 55.352 W



Stryker Energy Directional Services

Survey Report - Geographic



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 34 27-21S-32E Billbrey
Well: Billbrey 34-27 W0NC Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Billbrey 34-27 W0NC Fed Com #1H
TVD Reference: 3752+27 @ 3779.0usft (Patterson 217)
MD Reference: 3752+27 @ 3779.0usft (Patterson 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,137.0	90.30	357.70	11,967.7	4,183.7	402.1	524,438.71	747,400.23	32° 28' 23.914 N	103° 39' 55.391 W
10,232.0	90.70	358.80	11,968.9	4,258.7	399.2	524,533.66	747,397.33	32° 28' 24.854 N	103° 39' 55.418 W
10,326.0	90.20	0.20	11,968.1	4,352.8	398.4	524,627.88	747,396.51	32° 28' 25.784 N	103° 39' 55.421 W
10,421.0	90.50	1.80	11,968.5	4,447.8	400.2	524,722.83	747,398.28	32° 28' 26.724 N	103° 39' 55.393 W
10,516.0	90.50	1.40	11,964.7	4,541.6	402.9	524,816.59	747,400.98	32° 28' 27.653 N	103° 39' 55.355 W
10,610.0	90.90	1.70	11,963.8	4,636.8	408.4	524,911.55	747,403.53	32° 28' 28.593 N	103° 39' 55.318 W
10,705.0	90.90	1.60	11,962.9	4,731.5	408.2	525,006.50	747,406.28	32° 28' 29.532 N	103° 39' 55.279 W
10,800.0	90.70	2.00	11,961.2	4,826.4	411.1	525,101.44	747,409.25	32° 28' 30.471 N	103° 39' 55.237 W
10,894.0	90.80	2.40	11,960.0	4,920.4	414.8	525,195.38	747,412.85	32° 28' 31.401 N	103° 39' 55.189 W
10,989.0	90.70	2.40	11,958.8	5,015.3	418.7	525,290.27	747,416.83	32° 28' 32.339 N	103° 39' 55.135 W
17,084.0	90.70	1.80	11,957.8	5,110.2	422.2	525,385.20	747,420.31	32° 28' 33.279 N	103° 39' 55.088 W
17,178.0	91.00	2.50	11,956.2	5,204.1	425.7	525,479.12	747,423.84	32° 28' 34.208 N	103° 39' 55.040 W
17,273.0	90.20	1.80	11,955.2	5,299.0	429.4	525,574.05	747,427.49	32° 28' 35.147 N	103° 39' 54.990 W
17,368.0	90.50	0.90	11,954.6	5,394.0	431.7	525,668.02	747,429.81	32° 28' 36.086 N	103° 39' 54.956 W
17,462.0	90.30	0.00	11,954.0	5,488.0	432.4	525,763.01	747,430.54	32° 28' 37.016 N	103° 39' 54.941 W
17,557.0	90.20	358.90	11,953.6	5,583.0	431.5	525,858.00	747,429.83	32° 28' 37.956 N	103° 39' 54.944 W
17,652.0	90.20	358.60	11,953.2	5,678.0	428.5	525,952.98	747,427.56	32° 28' 38.896 N	103° 39' 54.982 W
17,747.0	90.20	358.10	11,952.9	5,772.9	428.7	526,047.94	747,424.83	32° 28' 39.836 N	103° 39' 54.987 W
17,842.0	90.10	358.20	11,952.7	5,867.9	423.7	526,142.89	747,421.78	32° 28' 40.776 N	103° 39' 55.015 W
17,937.0	90.20	358.00	11,952.4	5,962.8	420.5	526,237.84	747,418.51	32° 28' 41.716 N	103° 39' 55.045 W
18,031.0	89.70	357.40	11,952.5	6,056.8	416.7	526,331.76	747,414.84	32° 28' 42.646 N	103° 39' 55.082 W
18,126.0	90.90	356.50	11,952.0	6,151.6	411.7	526,426.82	747,409.78	32° 28' 43.584 N	103° 39' 55.134 W
18,221.0	90.90	356.20	11,950.5	6,246.5	407.3	526,521.51	747,405.39	32° 28' 44.523 N	103° 39' 55.179 W
18,316.0	91.20	355.20	11,948.8	6,341.5	405.1	526,616.48	747,403.24	32° 28' 45.463 N	103° 39' 55.197 W
18,410.0	91.20	355.50	11,946.8	6,436.4	403.3	526,710.42	747,401.35	32° 28' 46.393 N	103° 39' 55.212 W
18,505.0	91.00	355.60	11,945.0	6,530.4	400.8	526,805.37	747,398.88	32° 28' 47.333 N	103° 39' 55.234 W
18,600.0	90.80	355.30	11,943.5	6,625.3	398.1	526,900.33	747,396.21	32° 28' 48.272 N	103° 39' 55.258 W
18,695.0	91.00	355.50	11,942.0	6,720.3	395.3	526,995.29	747,394.39	32° 28' 49.212 N	103° 39' 55.273 W
18,790.0	90.80	0.80	11,940.5	6,815.3	395.5	527,090.28	747,394.84	32° 28' 50.152 N	103° 39' 55.283 W
18,885.0	90.80	1.80	11,939.3	6,910.2	395.8	527,185.25	747,396.87	32° 28' 51.092 N	103° 39' 55.230 W
18,980.0	89.50	1.50	11,939.2	7,005.2	401.6	527,280.20	747,399.69	32° 28' 52.031 N	103° 39' 55.190 W
19,075.0	91.10	0.80	11,938.7	7,100.2	403.8	527,375.18	747,401.60	32° 28' 52.971 N	103° 39' 55.161 W
19,169.0	91.70	1.90	11,938.5	7,194.1	405.7	527,469.12	747,403.51	32° 28' 53.900 N	103° 39' 55.128 W
19,264.0	91.10	2.20	11,934.1	7,289.0	406.1	527,564.03	747,407.21	32° 28' 54.839 N	103° 39' 55.081 W
19,359.0	91.10	1.80	11,932.3	7,384.0	412.2	527,658.98	747,410.26	32° 28' 55.778 N	103° 39' 55.039 W
19,453.0	90.80	0.20	11,930.9	7,477.9	413.6	527,752.94	747,411.67	32° 28' 56.708 N	103° 39' 55.016 W
19,548.0	89.40	359.00	11,930.9	7,572.9	412.9	527,847.94	747,411.01	32° 28' 57.648 N	103° 39' 55.016 W
19,643.0	90.80	358.30	11,931.0	7,667.9	410.7	527,942.91	747,408.77	32° 28' 58.588 N	103° 39' 55.036 W
19,738.0	90.10	357.70	11,930.5	7,762.8	407.4	528,037.85	747,406.45	32° 28' 59.528 N	103° 39' 55.067 W
19,832.0	90.10	357.00	11,930.3	7,856.7	403.0	528,131.75	747,401.11	32° 27' 0.457 N	103° 39' 55.111 W
19,927.0	89.90	357.20	11,930.3	7,951.6	398.2	528,226.62	747,396.30	32° 27' 1.396 N	103° 39' 55.160 W
20,022.0	90.10	357.60	11,930.3	8,046.5	393.9	528,321.53	747,391.99	32° 27' 2.335 N	103° 39' 55.204 W
20,117.0	89.90	357.90	11,930.3	8,141.5	390.2	528,416.45	747,388.26	32° 27' 3.275 N	103° 39' 55.240 W
20,212.0	90.70	358.30	11,929.8	8,236.4	387.0	528,511.40	747,385.11	32° 27' 4.215 N	103° 39' 55.270 W
20,307.0	90.60	359.40	11,928.8	8,331.4	385.1	528,606.37	747,383.21	32° 27' 5.154 N	103° 39' 55.286 W
20,402.0	90.80	359.40	11,927.8	8,426.4	384.1	528,701.36	747,382.21	32° 27' 6.094 N	103° 39' 55.290 W
20,497.0	90.70	359.00	11,926.7	8,521.3	382.8	528,796.35	747,380.88	32° 27' 7.034 N	103° 39' 55.299 W
20,592.0	89.70	358.70	11,926.4	8,616.3	380.9	528,891.32	747,378.98	32° 27' 7.974 N	103° 39' 55.314 W
20,687.0	90.90	358.30	11,925.9	8,711.3	378.2	528,986.31	747,377.32	32° 27' 8.914 N	103° 39' 55.328 W
20,782.0	90.90	0.00	11,924.4	8,806.3	375.6	529,081.29	747,375.74	32° 27' 9.854 N	103° 39' 55.326 W
20,877.0	91.20	0.80	11,922.6	8,901.3	375.1	529,176.27	747,377.24	32° 27' 10.794 N	103° 39' 55.314 W
20,980.0	89.90	359.30	11,921.6	9,004.3	375.1	529,271.27	747,377.15	32° 27' 11.733 N	103° 39' 55.307 W
21,075.0	89.80	359.00	11,921.9	9,099.3	377.6	529,374.25	747,375.74	32° 27' 12.673 N	103° 39' 55.317 W
21,169.0	90.80	0.40	11,921.3	9,193.2	377.1	529,468.25	747,375.25	32° 27' 13.613 N	103° 39' 55.315 W
21,264.0	89.60	359.70	11,920.9	9,288.2	377.2	529,563.24	747,375.33	32° 27' 14.553 N	103° 39' 55.308 W



Stryker Energy Directional Services
Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 W0NC Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Site:	Section 34 27-21S-32E Bilbrey	MD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Well:	Bilbrey 34-27 W0NC Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
21,359.0	92.10	359.40	11,919.5	9,383.2	376.5	529,658.22	747,374.58	32° 27' 15.563 N	103° 39' 55.309 W
21,453.0	90.70	358.40	11,917.2	9,477.2	374.7	529,752.17	747,372.78	32° 27' 16.493 N	103° 39' 55.324 W
21,548.0	90.90	358.30	11,915.9	9,572.1	371.9	529,847.13	747,370.04	32° 27' 17.433 N	103° 39' 55.349 W
21,643.0	90.80	357.20	11,914.8	9,667.0	368.2	529,942.04	747,368.31	32° 27' 18.372 N	103° 39' 55.385 W
21,738.0	91.10	356.90	11,912.9	9,761.9	363.3	530,036.90	747,361.43	32° 27' 19.311 N	103° 39' 55.435 W
21,832.0	91.80	357.20	11,910.7	9,855.7	358.5	530,130.75	747,356.59	32° 27' 20.240 N	103° 39' 55.485 W
21,927.0	90.90	357.60	11,908.6	9,950.6	354.2	530,225.63	747,352.28	32° 27' 21.179 N	103° 39' 55.528 W
22,022.0	93.20	358.90	11,905.2	10,045.6	351.3	530,320.52	747,349.38	32° 27' 22.118 N	103° 39' 55.555 W
22,117.0	91.50	358.80	11,901.3	10,140.4	349.4	530,415.41	747,347.48	32° 27' 23.057 N	103° 39' 55.570 W
22,221.0	89.20	357.80	11,900.7	10,244.4	348.3	530,519.36	747,344.39	32° 27' 24.086 N	103° 39' 55.599 W
22,255.0	89.20	357.80	11,901.1	10,278.3	345.0	530,553.33	747,343.09	32° 27' 24.422 N	103° 39' 55.612 W

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
22,255.0	11,901.1	10,278.3	345.0	22255.0' Projected to bit

Checked By: _____ Approved By: _____ Date: _____